



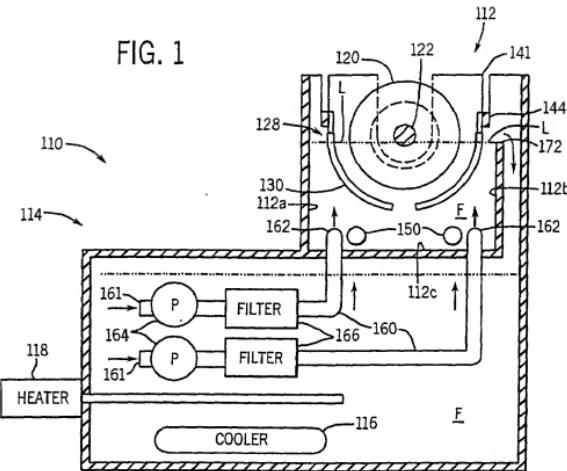
Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

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Appl. No.: 09/992,205

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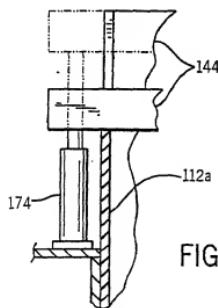
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FIG. 1



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FIG. 5



Patent & Trademark Office  
O I P E  
SEP 03 2002  
Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

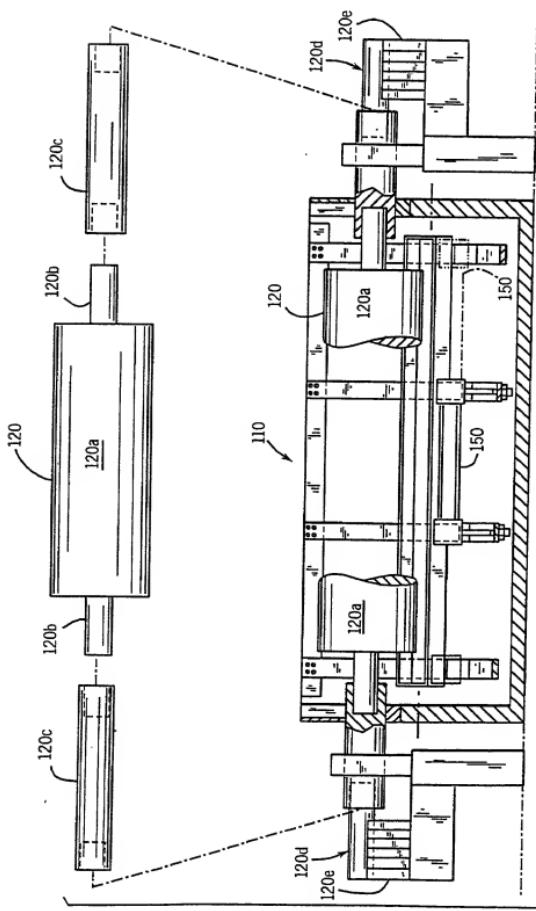


FIG. 2

Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

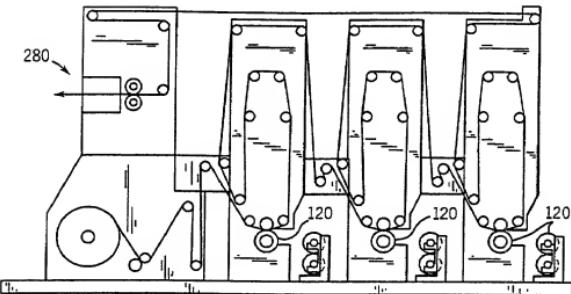
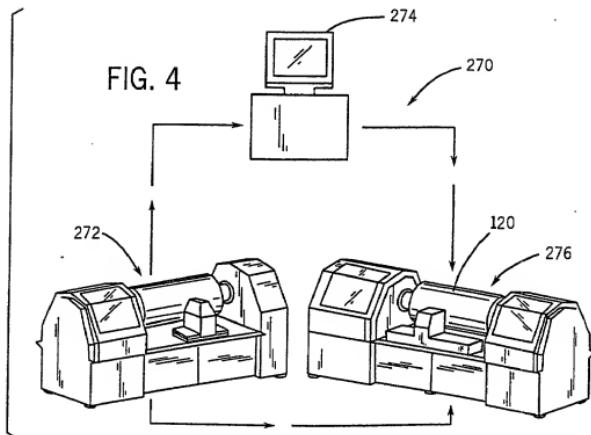


FIG. 3

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FIG. 4



title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205



FIG. 6

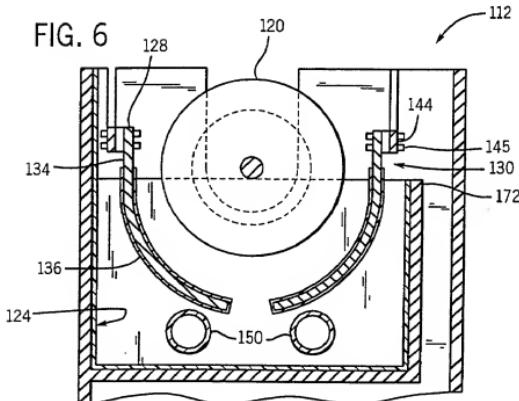
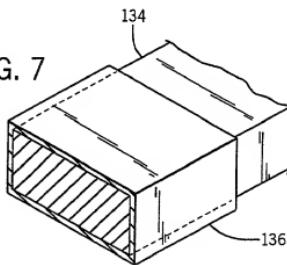


FIG. 7



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Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205



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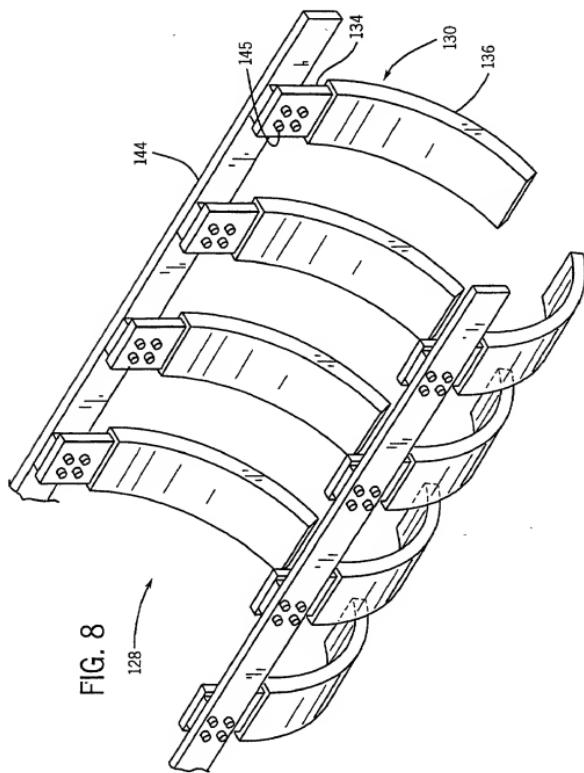
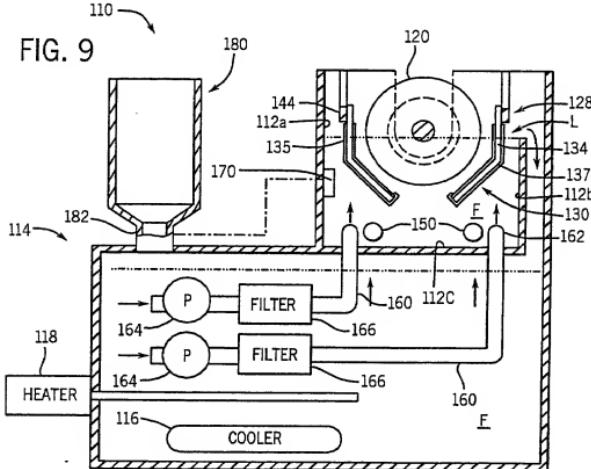


FIG. 8



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FIG. 9





Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

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FIG. 10

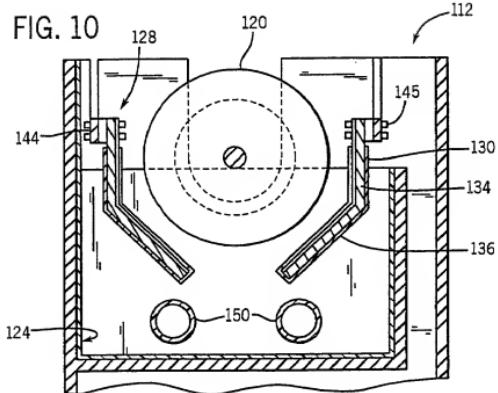
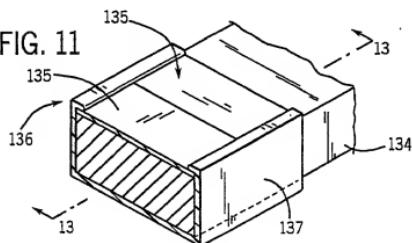


FIG. 11



Patent & Trademark Office  
S 0 2002  
1991  
Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

FIG. 12

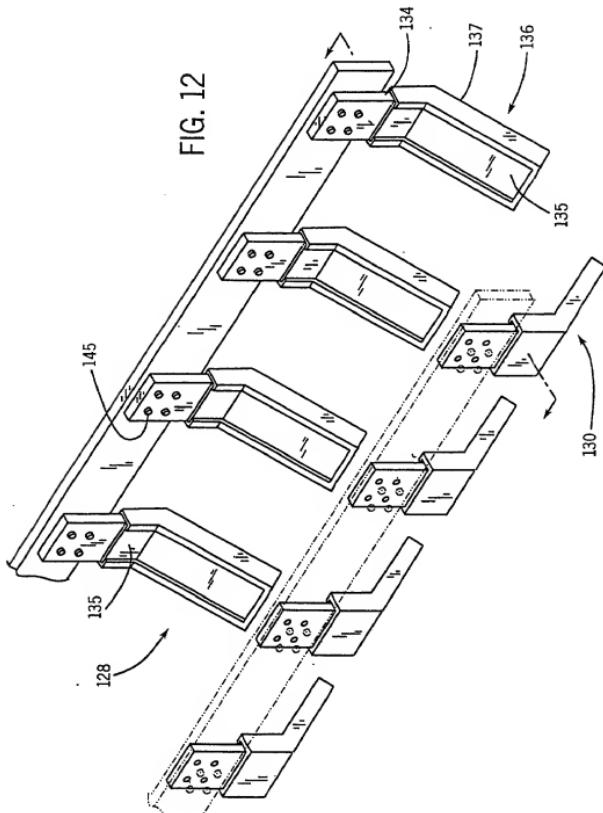


FIG. 13a

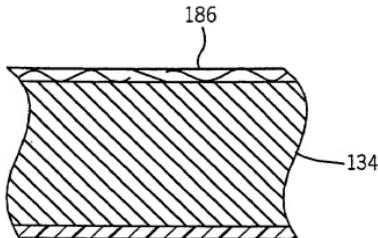


FIG. 13b

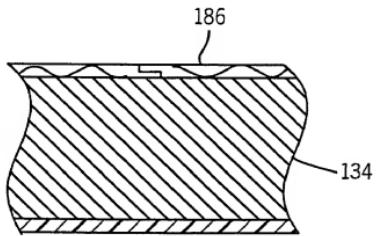
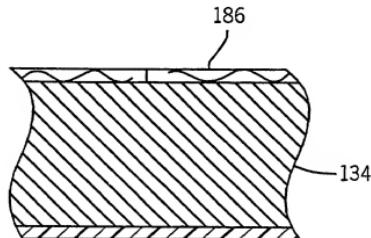


FIG. 13c



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FIG. 14

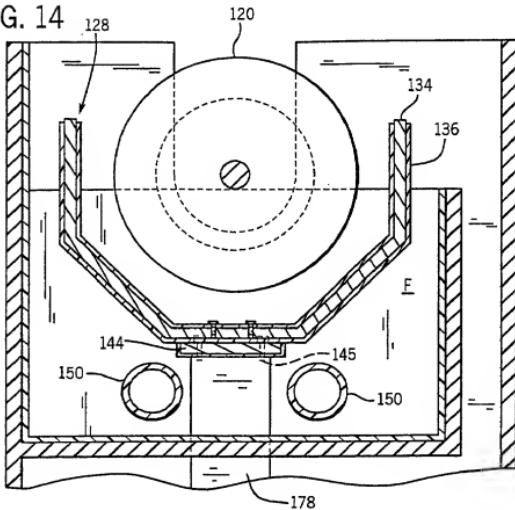


FIG. 15

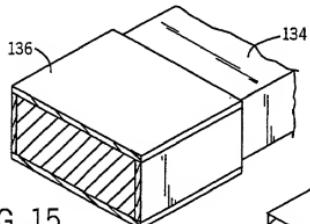


FIG. 16

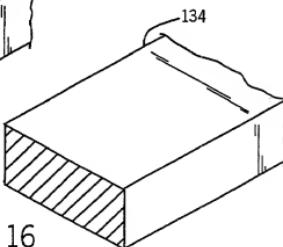
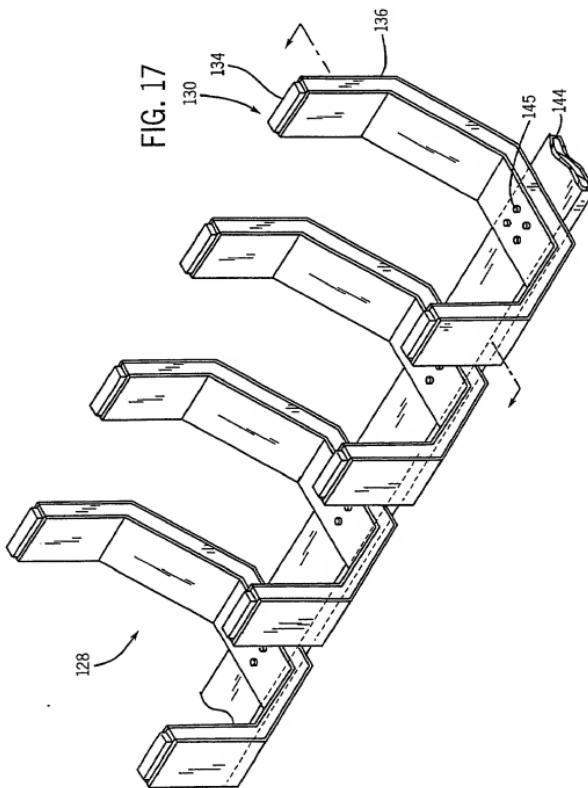




FIG. 17





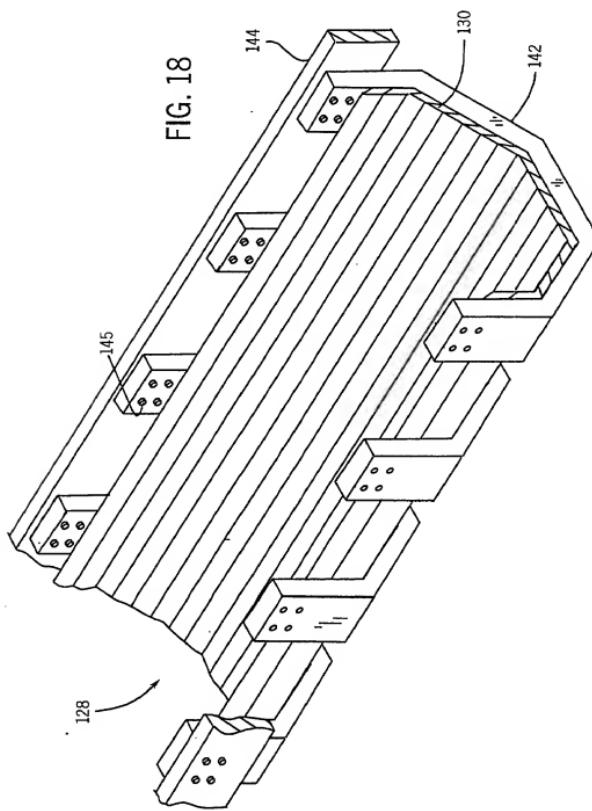
Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
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Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

Appl. No.: 09/992,205

Appl. No.: 09/992,205

FIG. 18





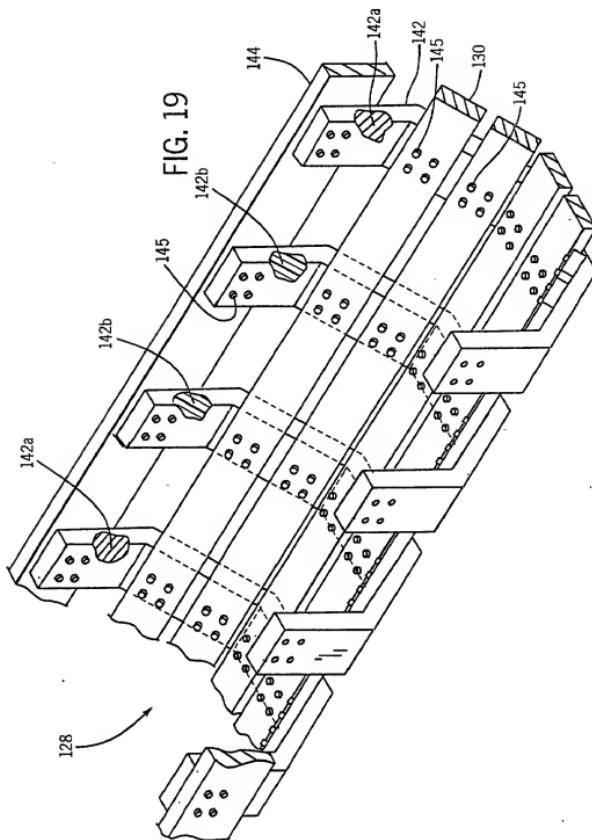
Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

Appl. No.: 09/992,205

Appl. No.: 09/992,205

FIG. 19



Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

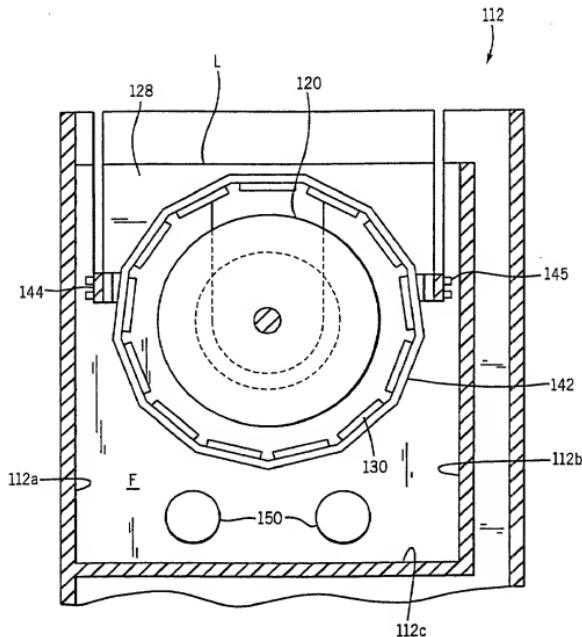
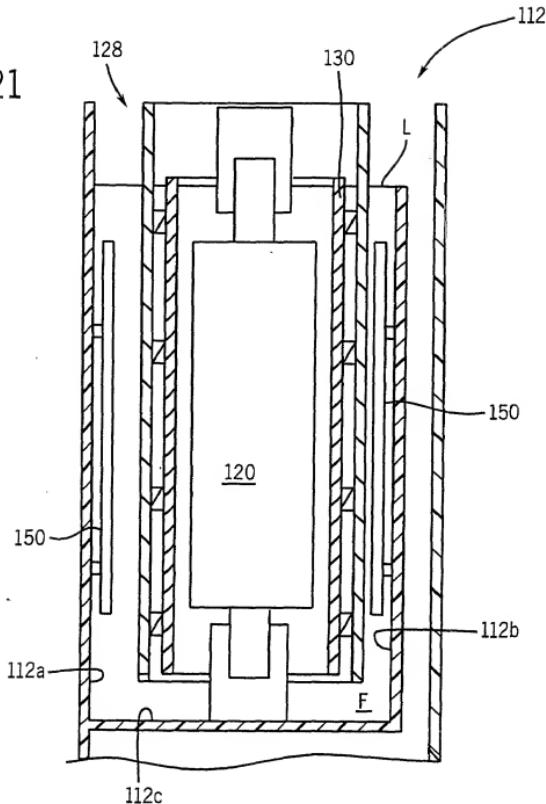


FIG. 20



FIG. 21



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Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205



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FIG. 22:

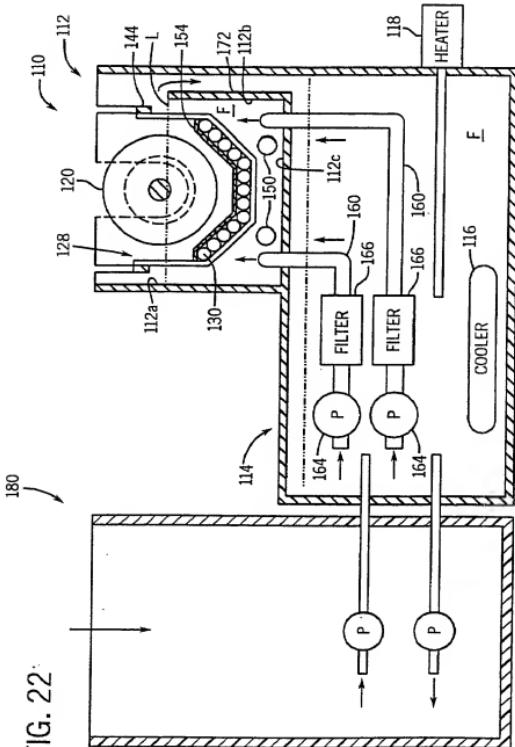


FIG. 23

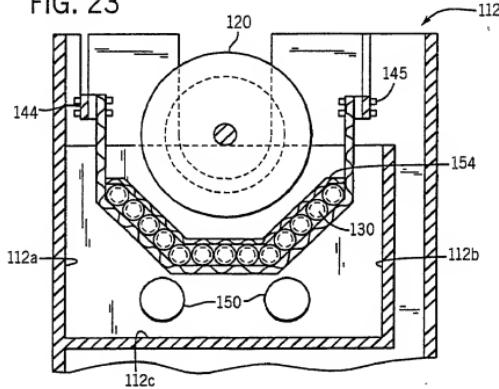
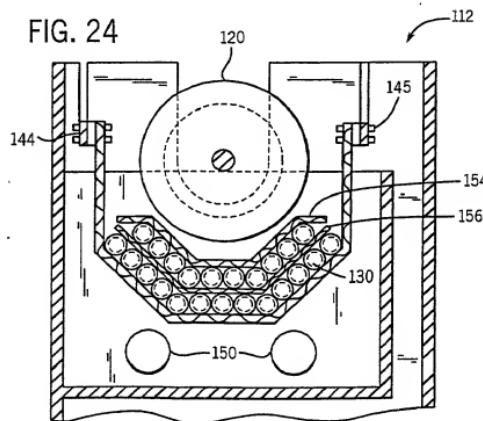


FIG. 24



Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

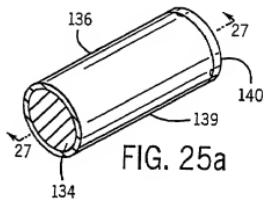


FIG. 25a

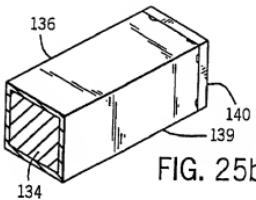


FIG. 25b

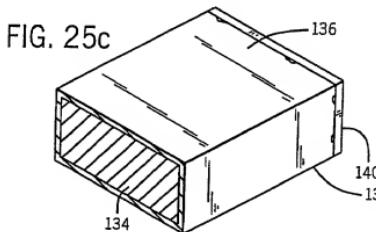


FIG. 25c

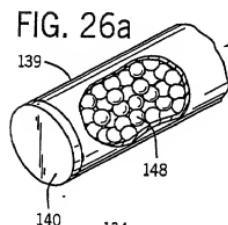


FIG. 26a

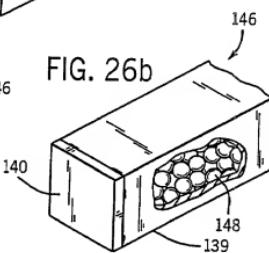


FIG. 26b

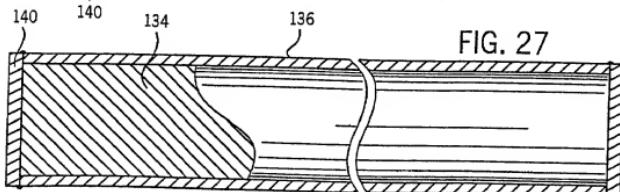


FIG. 27



Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

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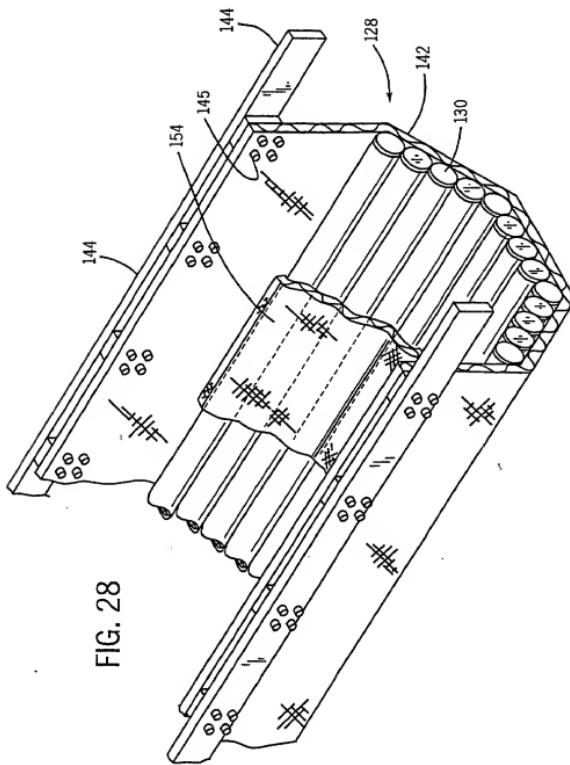


FIG. 28



FIG. 29

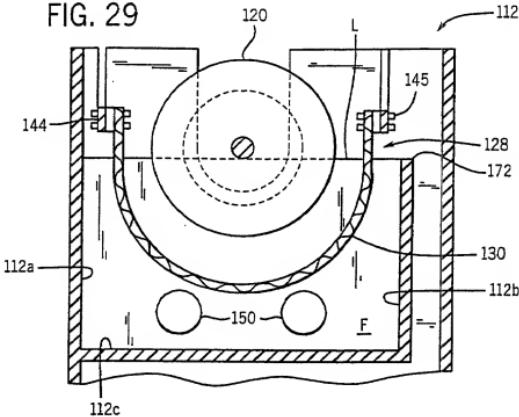


FIG. 30

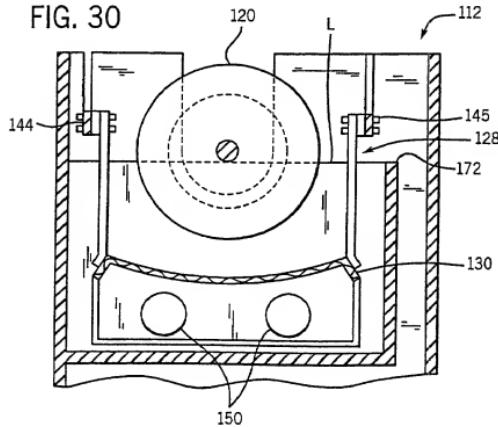




FIG. 31

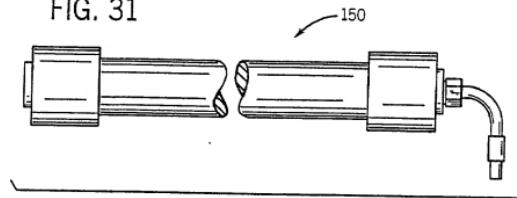


FIG. 32

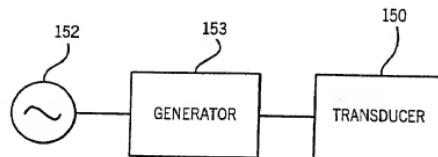
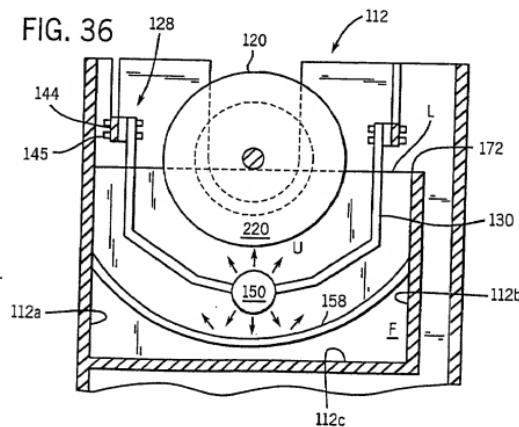


FIG. 36



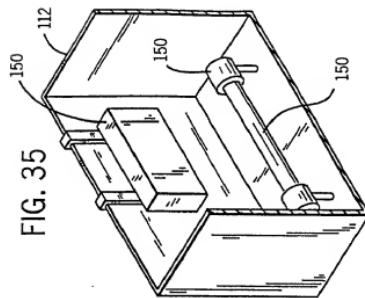


FIG. 35

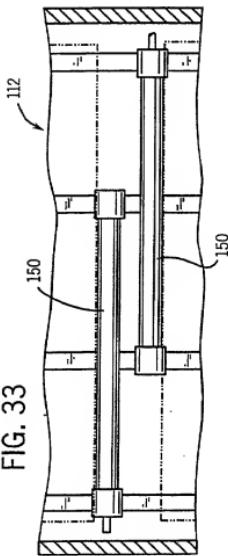


FIG. 33

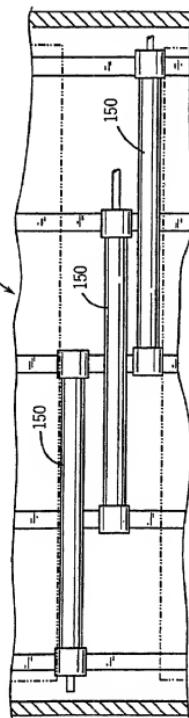


FIG. 34

Title: ELECTROPLATING APPARATUS  
USING A NON-DISSOLVABLE ANODE  
AND ULTRASONIC ENERGY  
Inventor(s): Hubert F. Metzger  
Appl. No.: 09/992,205

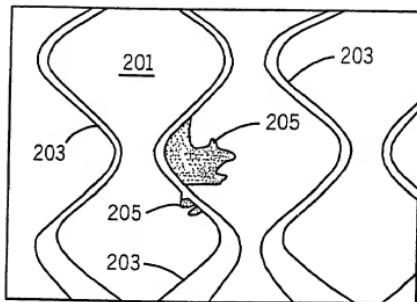


FIG. 37

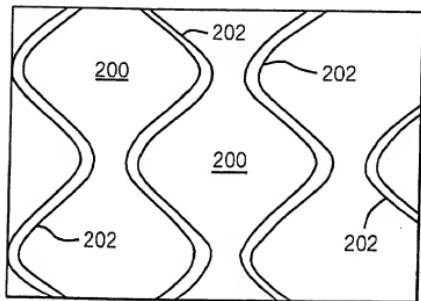
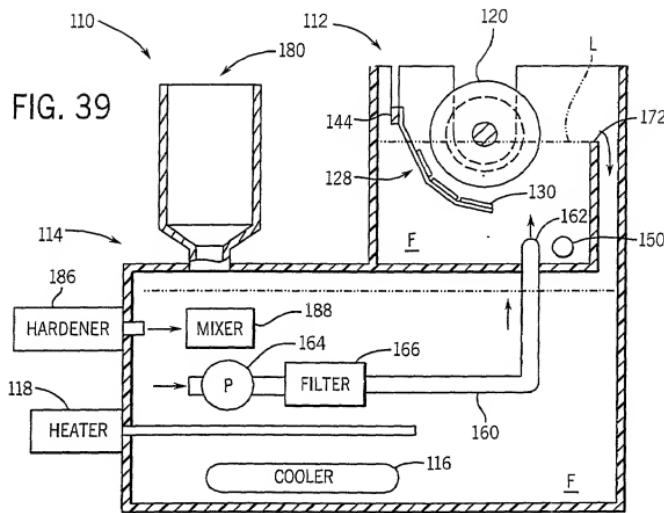


FIG. 38



FIG. 39



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FIG. 40

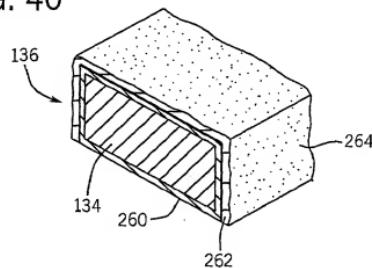
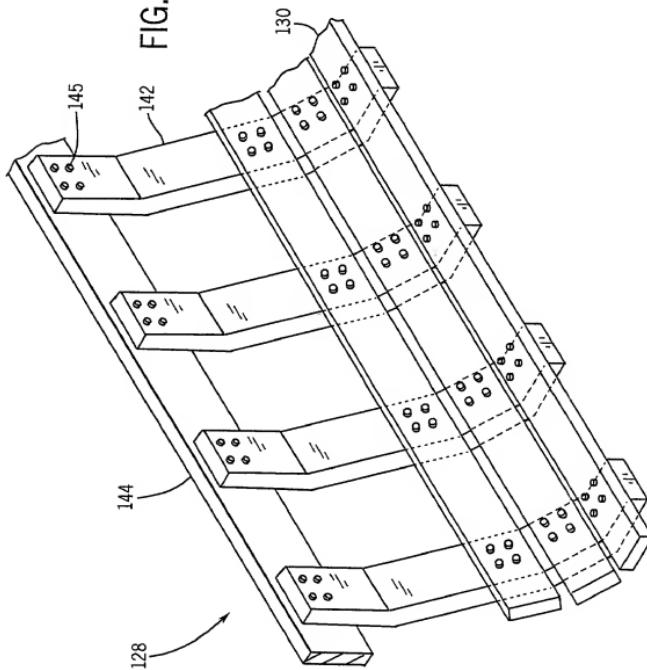




FIG. 41



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